

Patent Abstracts of Japan

PUBLICATION NUMBER : 03229621
PUBLICATION DATE : 11-10-91

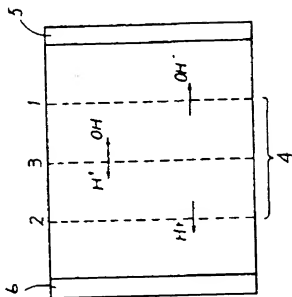
APPLICATION DATE : 20-10-89
APPLICATION NUMBER : 01271709

APPLICANT : TOSOH CORP;

INVENTOR : SUGAYA YOSHIO;

INT.CL. : B01D 61/44

TITLE : WATER SPLITTER SYSTEM BY
ELECTRIC DIALYSIS



ABSTRACT : PURPOSE: To stably and efficiently decompose a salt into an acid and a base by composing a water splitter by putting an anion-exchange membrane, an amphoteric ion-exchange membrane, a cation-exchange membrane, in this order from an anode side without contacting each other.

CONSTITUTION: Using at least one water-splitter 4, a salt-solution is converted into a hydroxide and an acid by electric dialysis. In the case, the water-splitter 4 is composed by putting an anion-exchange membrane 1, an amphoteric-exchange membrane 3, and a cation-exchange membrane in this order from an anode side without contacting each other. As a result, manufacture of an acid and a base from a salt or a decomposition of a salt as an industrial waste into an acid and a base can be carried out stably and highly efficiently.

COPYRIGHT: (C) JPO